GTE Franchise Area - Greater Los Angeles Area, California: CLEC Fiber Deployment

Overview of Maps 3.3-3.5

Maps 3.3-3.5 zoom in on GTE's franchise areas in Los Angeles, demonstrating pockets of intense facilities deployment and bypass customers.

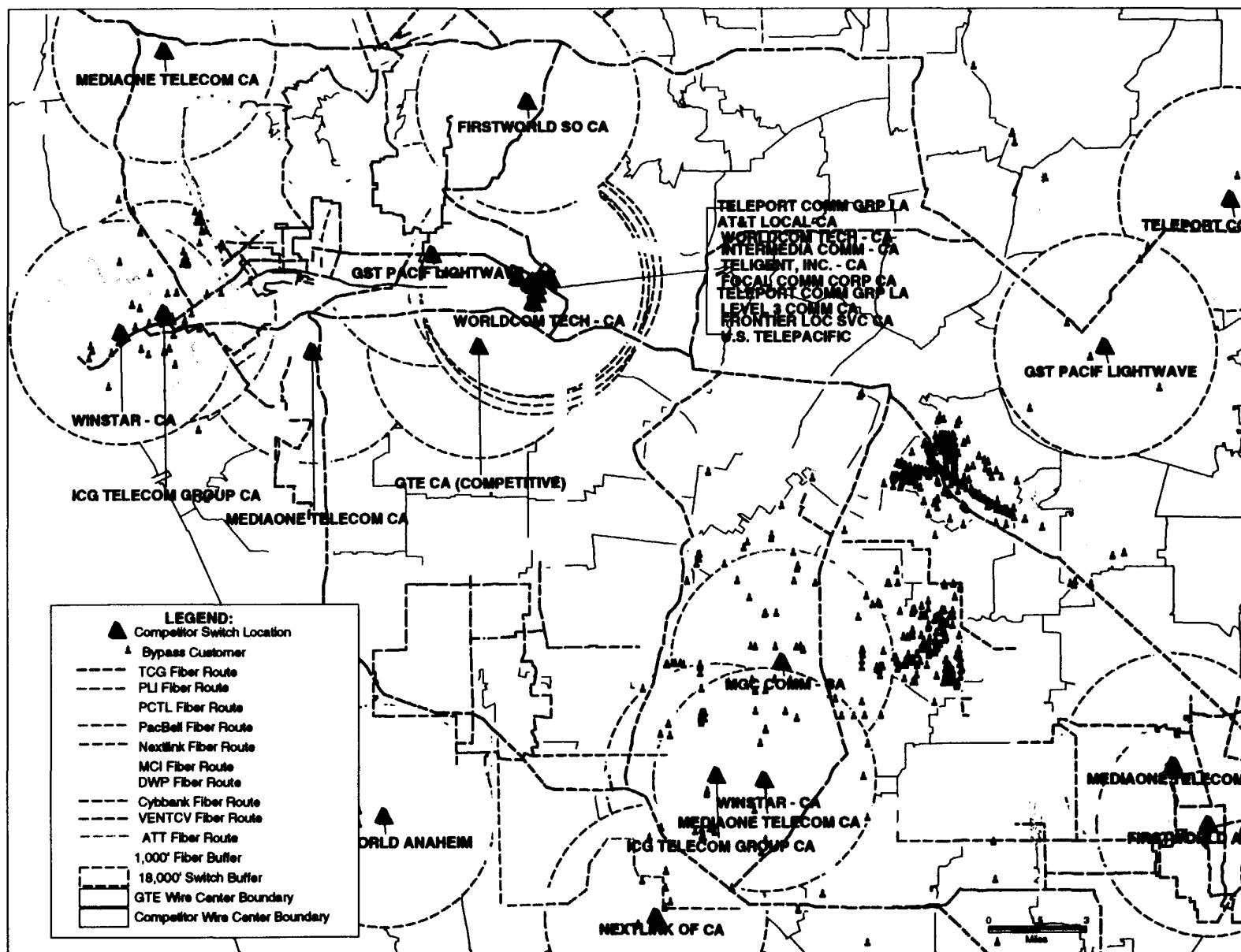The following definitions are employed for the bypass and addressability statistics that follow:
- Customers that are Immediately Addressable region are defined to fall within a buffer area of 1,000 feet on either side of a competitor's fiber route.
- Customers that are Radius Addressable are defined to fall within a radius of 18,000 feet around a competitor's class five switch.
- Buildings may contain more than one bypass customer.

Facilities-based CLECs in Los Angeles are targeting businesses of all sizes as well as residential customers. The quantity of total bypass customers outpaces UNE loop-provisioned customers 5:1, indicative of the fact that the sheer density and market potential of Los Angeles has attracted the greatest number of entrants among all GTE markets. MCI, ICG, AT&T, and Firstworld have made the greatest incursions. By the addressability estimates here, nearly 70% of all GTE business customers are within 18,000 feet of a CLEC switch. Only about 25% of GTE business customers are within 1000 feet of known CLEC fiber, but data on all competitive fiber networks in the area was not available.

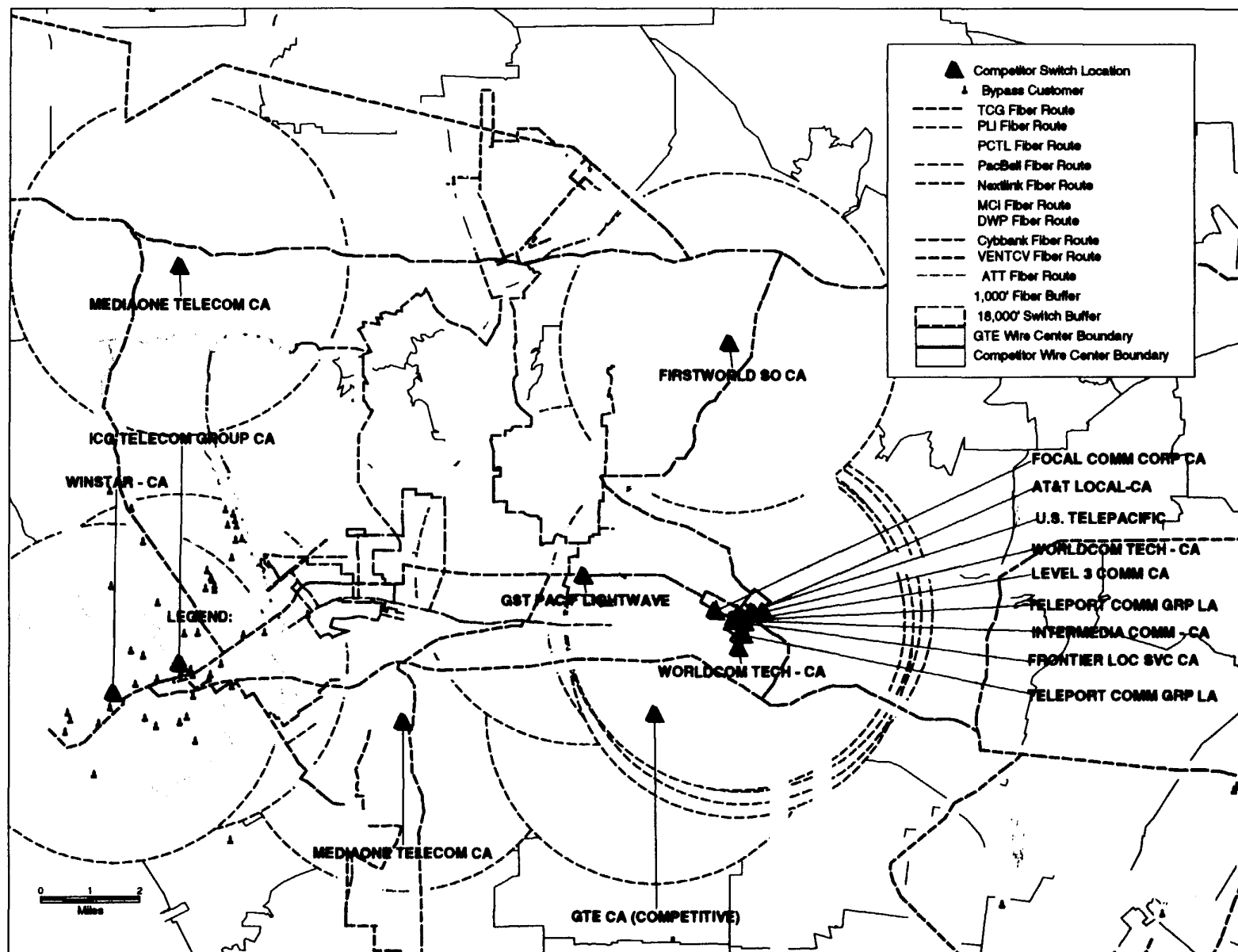The following tables summarize the addressability statistics for the Los Angeles area:

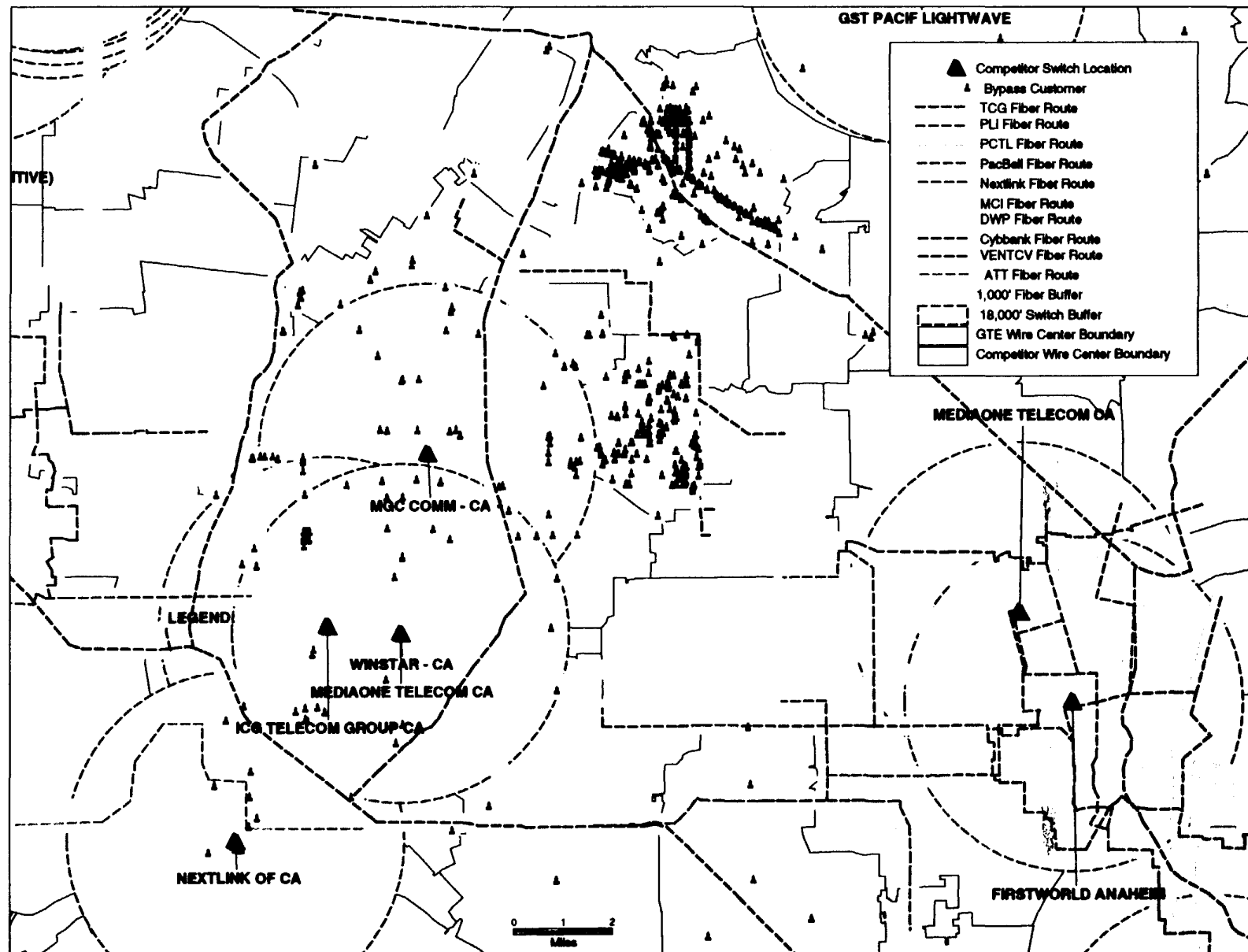| Resale	Loop UNE	Bypass	Bypass Percentage of Wholesale Share
32,934	6,294	37,442	48.84%

3.3 GTE Franchise Area - Los Angeles, California: CLEC Bypass Customers And Addressable Market

LEGEND:
- ▲ Competitor Switch Location
- ▴ Bypass Customer
- – – – TCG Fiber Route
- – – – PLI Fiber Route
- PCTL Fiber Route
- – – – PacBell Fiber Route
- – – – Nextlink Fiber Route
- MCI Fiber Route
- DWP Fiber Route
- – – – Cybbank Fiber Route
- – – – VENTCV Fiber Route
- – – – ATT Fiber Route
- 1,000' Fiber Buffer
- 18,000' Switch Buffer
- GTE Wire Center Boundary
- Competitor Wire Center Boundary

Map labels: MEDIAONE TELECOM CA, FIRSTWORLD SO CA, TELEPORT COMM GRP LA, AT&T LOCAL CA, WORLDCOM TECH - CA, INTERMEDIA COMM - CA, TELIGENT, INC. - CA, FOCAL COMM CORP CA, TELEPORT COMM GRP LA, LEVEL 3 COMM CA, FRONTIER LOC SVC CA, U.S. TELEPACIFIC, TELEPORT CO, GST PACIF LIGHTWAVE, GST PACIF LIGHTWAVE, WORLDCOM TECH - CA, WINSTAR - CA, ICG TELECOM GROUP CA, GTE CA (COMPETITIVE), MEDIAONE TELECOM CA, MCI COMM - CA, WINSTAR - CA, MEDIAONE TELECOM CA, ICG TELECOM GROUP CA, MEDIAONE TELECOM, WORLD ANAHEIM, NEXTLINK OF CA, FIRSTWORLD A

3.4 GTE Franchise Area - Los Angeles, California: CLEC Bypass Customers And Addressable Market In Santa Monica And Los Angeles

Legend:
- ▲ Competitor Switch Location
- ▴ Bypass Customer
- TCG Fiber Route
- PLI Fiber Route
- PCTL Fiber Route
- PacBell Fiber Route
- Nextlink Fiber Route
- MCI Fiber Route
- DWP Fiber Route
- Cybbank Fiber Route
- VENTCV Fiber Route
- ATT Fiber Route
- 1,000' Fiber Buffer
- 18,000' Switch Buffer
- GTE Wire Center Boundary
- Competitor Wire Center Boundary

MEDIAONE TELECOM CA

FIRSTWORLD SO CA

ICG TELECOM GROUP CA

WINSTAR - CA

FOCAL COMM CORP CA
AT&T LOCAL-CA
U.S. TELEPACIFIC
WORLDCOM TECH - CA
LEVEL 3 COMM CA
TELEPORT COMM GRP LA
INTERMEDIA COMM - CA
FRONTIER LOC SVC CA
TELEPORT COMM GRP LA

LEGEND:

GST PACIFICLIGHTWAVE

WORLDCOM TECH - CA

MEDIAONE TELECOM CA

GTE CA (COMPETITIVE)

0   1   2
Miles

3.5 GTE Franchise Area - Los Angeles, California: CLEC Bypass Customers And Addressable Market

GST PACIF LIGHTWAVE

Legend:
- ▲ Competitor Switch Location
- ▲ Bypass Customer
- ----- TCG Fiber Route
- ----- PLI Fiber Route
- PCTL Fiber Route
- ----- PacBell Fiber Route
- ----- Nextlink Fiber Route
- MCI Fiber Route
- DWP Fiber Route
- ----- Cybbank Fiber Route
- ----- VENTCV Fiber Route
- ----- ATT Fiber Route
- 1,000' Fiber Buffer
- 18,000' Switch Buffer
- GTE Wire Center Boundary
- Competitor Wire Center Boundary

(TIVE)

MEDIAONE TELECOM CA

MGC COMM - CA

LEGEND

WINSTAR - CA

MEDIAONE TELECOM CA

ICG TELECOM GROUP CA

NEXTLINK OF CA

0   1   2
Miles

FIRSTWORLD ANAHEIM

ADDRESSABLE MARKET
IMMEDIATE   RADIUS

	IMMEDIATE	RADIUS
TOTAL STATISTICS		
Addressable buildings	47,283	162,034
Total buildings	294,394	257,891
Percent of addressable buildings	16.06%	62.83%
Addressable customers	69,304	220,693
Total customers	390,335	344,996
Percent of addressable customers	17.76%	63.97%
BUSINESS STATISTICS		
Addressable business buildings	11,208	27,964
Total business buildings	46,322	40,503
Percent of addressable business buildings	24.20%	69.04%
Addressable firms	17,310	41,446
Total firms	69,967	61,744
Percent of addressable firms	24.74%	67.13%
RESIDENTIAL STATISTICS		
Addressable residential buildings	36,935	136,527
Total residential buildings	252,208	221,142
Percent of addressable residential buildings	14.64%	61.74%
Addressable residences	51,994	179,247
Total residences	320,368	283,252
Percent of addressable residences	16.23%	63.28%

Lexington

GTE Franchise Area - Lexington, Kentucky
CLEC Switch Deployment

Overview of Map 4.1

Map 4.1 demonstrates switch deployment by CLECs in GTE's franchise area in Lexington, Kentucky. Hyperion and ICG both own class five switches in the area, but ICG does not yet compete for local telephony in the area. Hyperion and e.spire, however, both compete against GTE.

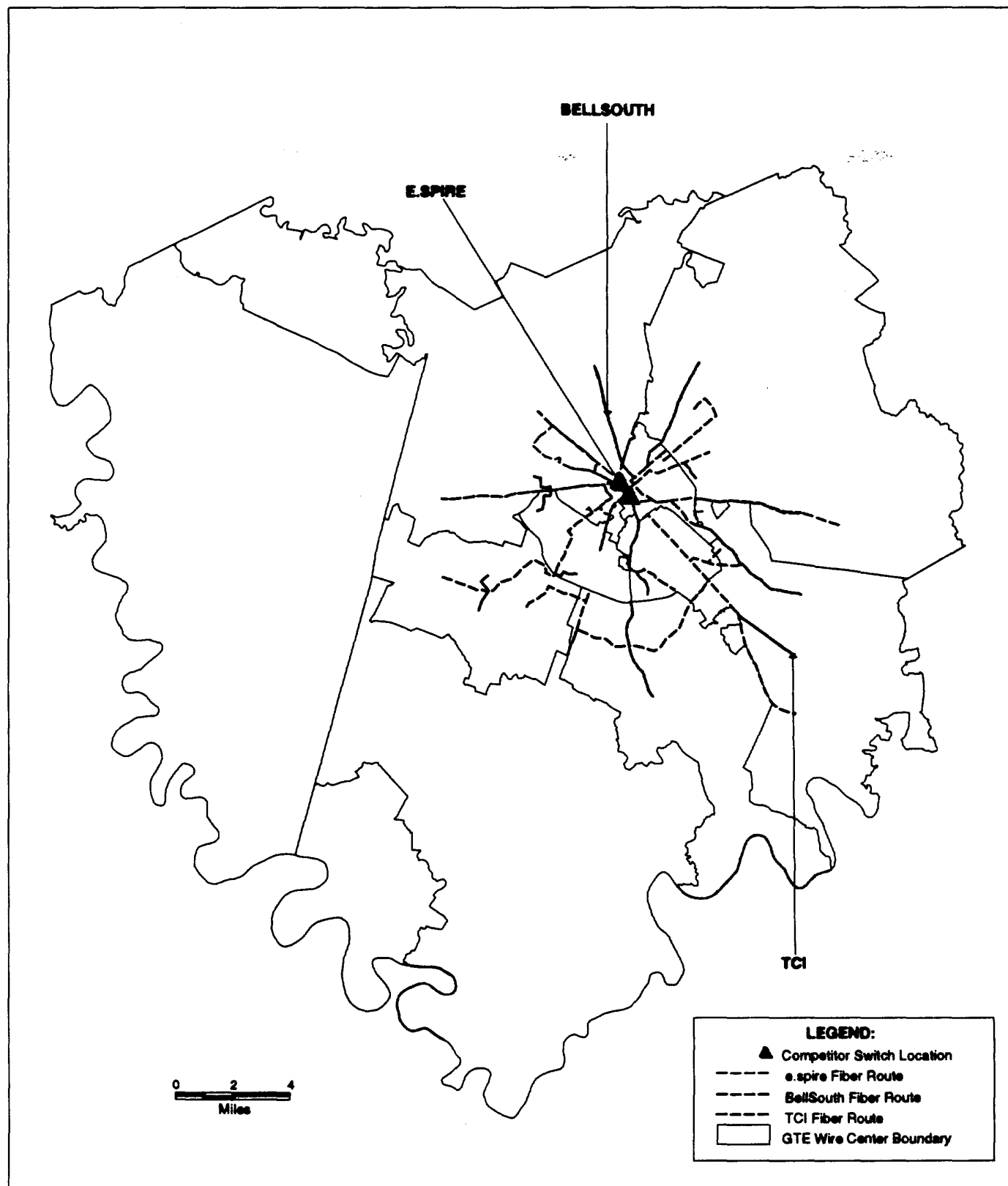# 4.1 GTE Franchise Area - Lexington, Kentucky
CLEC Switch Deployment

ICG TELECOM GROUP KY
Switch Class C5

HYPERION L'VILLE CLC
Switch Class C5

LEXINGTON MAIN

LEXINGTON SOUTH

LEXINGTON EAST

LEGEND:
△ Competitor Switch Location
▭ GTE Wire Center Boundary
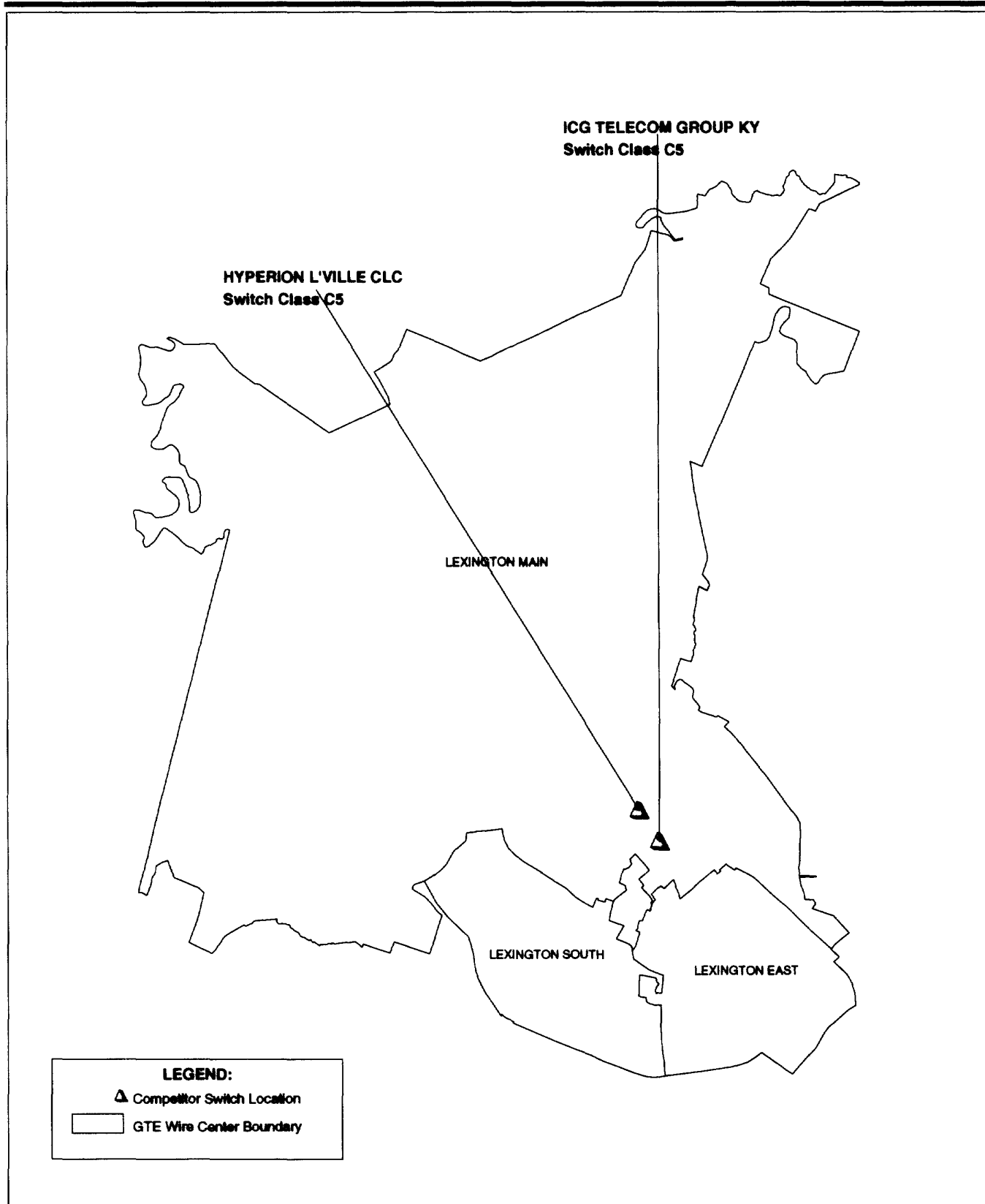
GTE Franchise Area - Lexington, Kentucky
CLEC Fiber Deployment

Overview of Map 4.2

Map 4.2 demonstrates competitive fiber routes by carrier in the Lexington area. Routes are shown for e.spire, TCI, and BellSouth that together campus all of central Lexington. BellSouth is the newest entrant to the Lexington market.

4.2 GTE Franchise Area - Lexington, Kentucky
CLEC Fiber Deployment

BELLSOUTH

E.SPIRE

TCI

LEGEND:
▲ Competitor Switch Location
--- e.spire Fiber Route
--- BellSouth Fiber Route
--- TCI Fiber Route
☐ GTE Wire Center Boundary

0   2   4
Miles

GTE Franchise Area - Lexington, Kentucky: CLEC Bypass Customers And Addressable Market

Overview of Map 4.3

Map 4.3 shows the portion of the Lexington market that is addressable given competitive switch and fiber locations. Only 92 facilities-based customers have been identified, 38 of which are located in three buildings shown on map 4.3. Despite its absence from the fiber map 4.2, Hyperion is fully facilities-based CLEC--an integrated local and long distance provider—that partners with TCI/Intermedia(ICI) in the area for both leased facilities and construction. The TCI fiber network is the most extensive competitive fiber network in Lexington and gives Hyperion a significant reach. Specifically, nearly 60% of business customers in Lexington are within 1000 feet of CLEC fiber, and approximately 80% of both business and residential customers are within 18,000 feet of CLEC switches.

The following definitions are employed for the bypass and addressability statistics that follow:

- Customers that are Immediately Addressable region are defined to fall within a buffer area of 1,000 feet on either side of a competitor's fiber route.
- Customers that are Radius Addressable are defined to fall within a radius of 18,000 feet around a competitor's class five switch.
- Buildings may contain more than one bypass customer.

The following tables summarize the addressability statistics for the Lexington area:

Resale	Loop UNE	Bypass	Bypass Percentage of Wholesale Share
2,194	51	1,350	37.55%

4.3 GTE Franchise Area - Lexington, Kentucky: CLEC Bypass Customers And Addressable Market
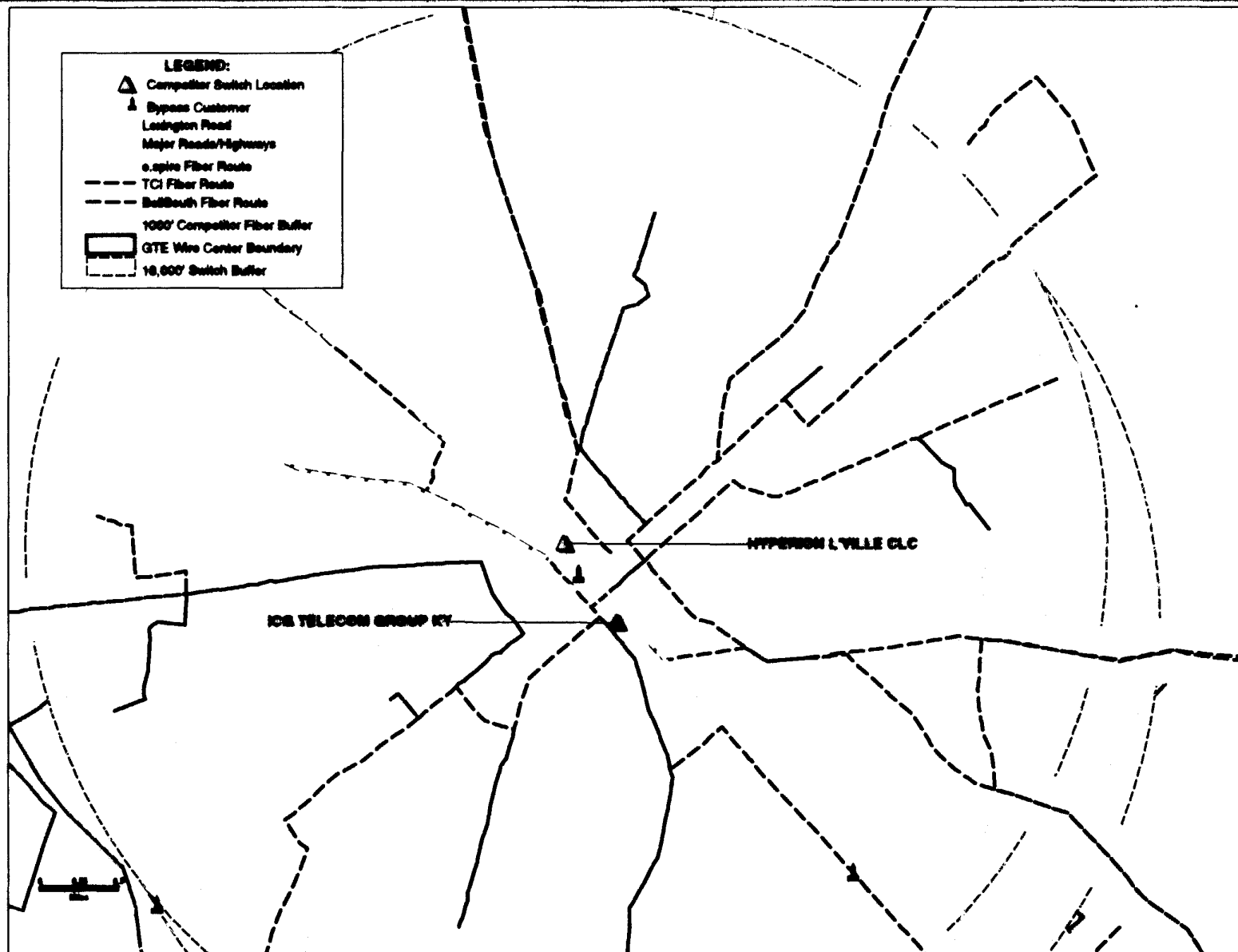
ADDRESSABLE MARKET

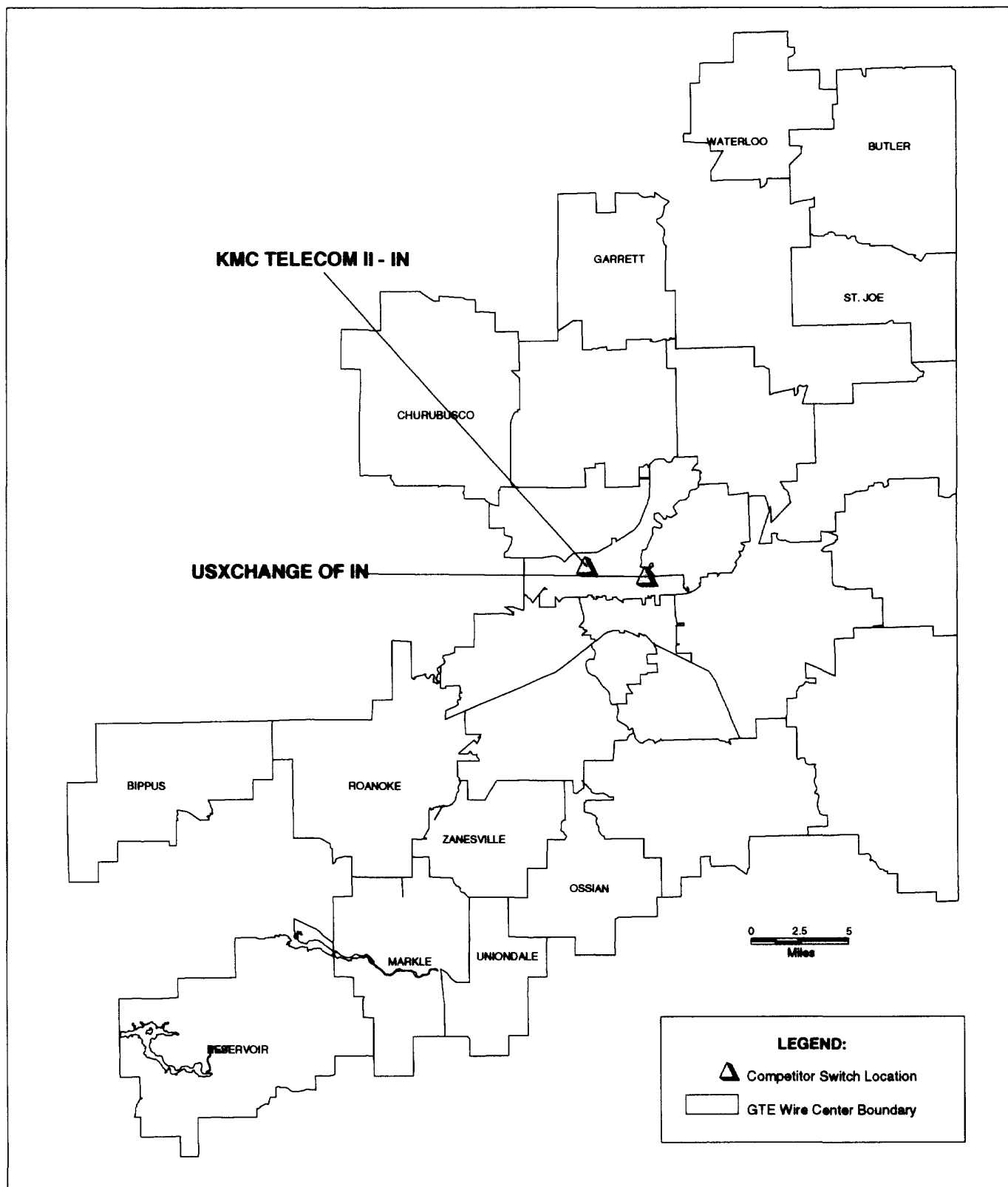|	IMMEDIATE	RADIUS
TOTAL STATISTICS		
Addressable buildings	24,578	34,373
Total buildings	64,987	43,920
Percent of addressable buildings	37.82%	78.26%
Addressable customers	42,338	54,873
Total customers	101,857	70,373
Percent of addressable customers	41.57%	77.97%
BUSINESS STATISTICS		
Addressable business buildings	3,977	5,263
Total business buildings	8,148	6,544
Percent of addressable business buildings	48.81%	80.42%
Addressable firms	7,893	9,617
Total firms	14,416	11,898
Percent of addressable firms	54.75%	80.83%
RESIDENTIAL STATISTICS		
Addressable residential buildings	21,398	30,117
Total residential buildings	58,768	38,803
Percent of addressable residential buildings	36.41%	77.62%
Addressable residences	34,445	45,256
Total residences	87,441	58,475
Percent of addressable residences	39.39%	77.39%

GTE Franchise Area –Ft. Wayne, Indiana
CLEC Switch Deployment

Overview of Map 5.1

Map 5.1 demonstrates switch deployment by CLECs in GTE's franchise area in Ft. Wayne, Indiana. KMC Telecom and USXCHANGE both own class five switches in the area, and USXCHANGE just turned up its switch in late 1998.

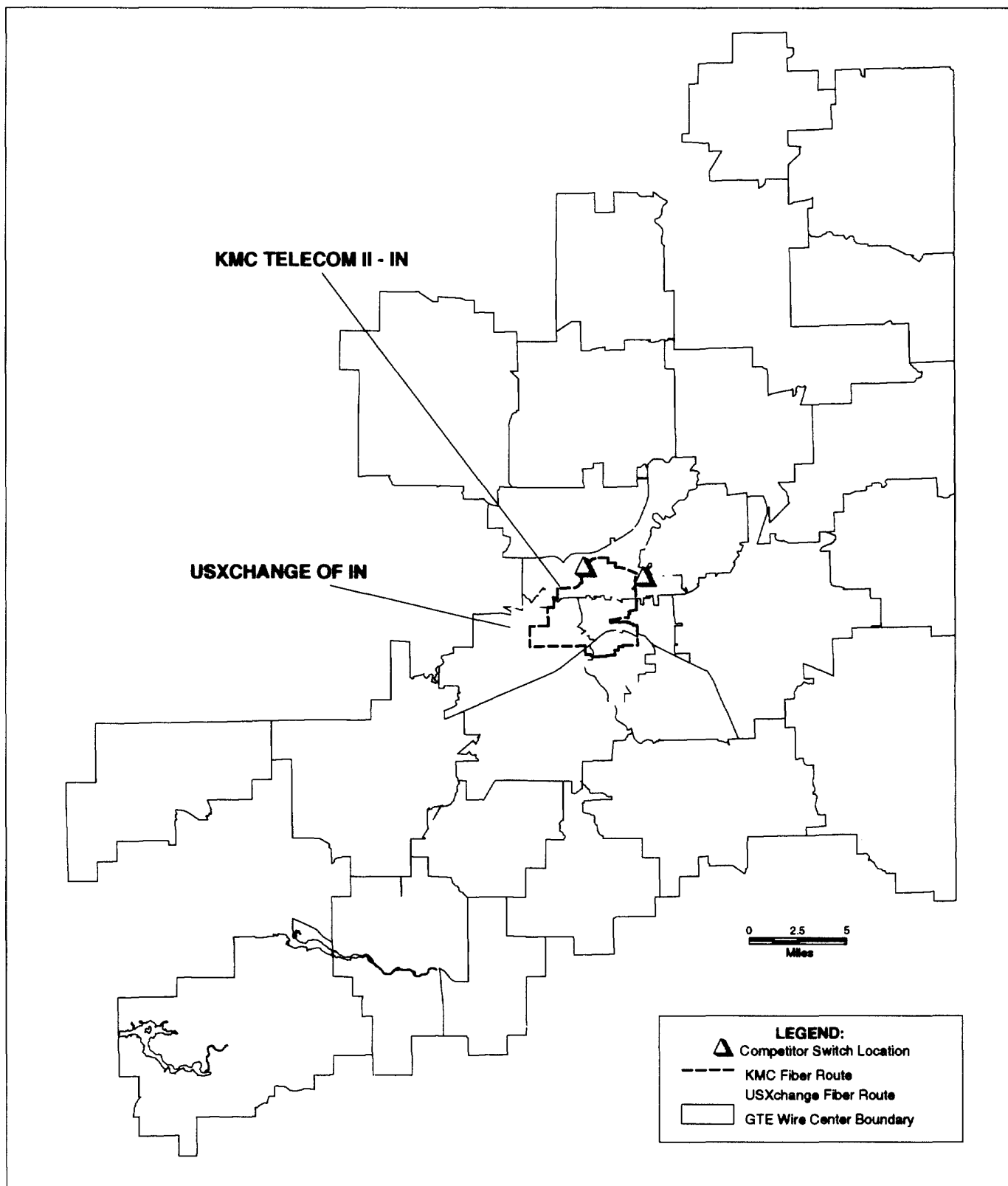## 5.1 GTE Franchise Area - Fort Wayne, Indiana CLEC Switch Deployment

KMC TELECOM II - IN

USXCHANGE OF IN

WATERLOO

BUTLER

GARRETT

ST. JOE

CHURUBUSCO

BIPPUS

ROANOKE

ZANESVILLE

OSSIAN

MARKLE

UNIONDALE

RESERVOIR

```
0      2.5      5
|——————|——————|
         Miles
```

LEGEND:

△ Competitor Switch Location

☐ GTE Wire Center Boundary

GTE Franchise Area –Ft. Wayne, Indiana
CLEC Fiber Deployment

Overview of Map 5.2

Map 5.2 shows competitive fiber routes by carrier in the general Ft. Wayne area. Routes are shown for KMC Telecom and UXCHANGE, both of which campus the downtown area.

5.2 GTE Franchise Area - Fort Wayne, Indiana
CLEC Fiber Deployment

KMC TELECOM II - IN

USXCHANGE OF IN

0   2.5   5
Miles

LEGEND:
△ Competitor Switch Location
- - - - KMC Fiber Route
USXchange Fiber Route
GTE Wire Center Boundary

GTE Franchise Area –Ft. Wayne, Indiana: CLEC Resale Customers And Addressable Market

Overview of Map 5.3

Map 5.3 shows the portion of the Ft. Wayne market that is addressable given competitive switch and fiber locations. While only two very recent UNE loop-provisioned customers of USXCHANGE were identified, over 3,000 resale customers are shown in map 4.3. Having turned up its switch only a few months ago, USXHANGE is beginning to transfer its resale customers onto its own network while using GTE's UNE loops.

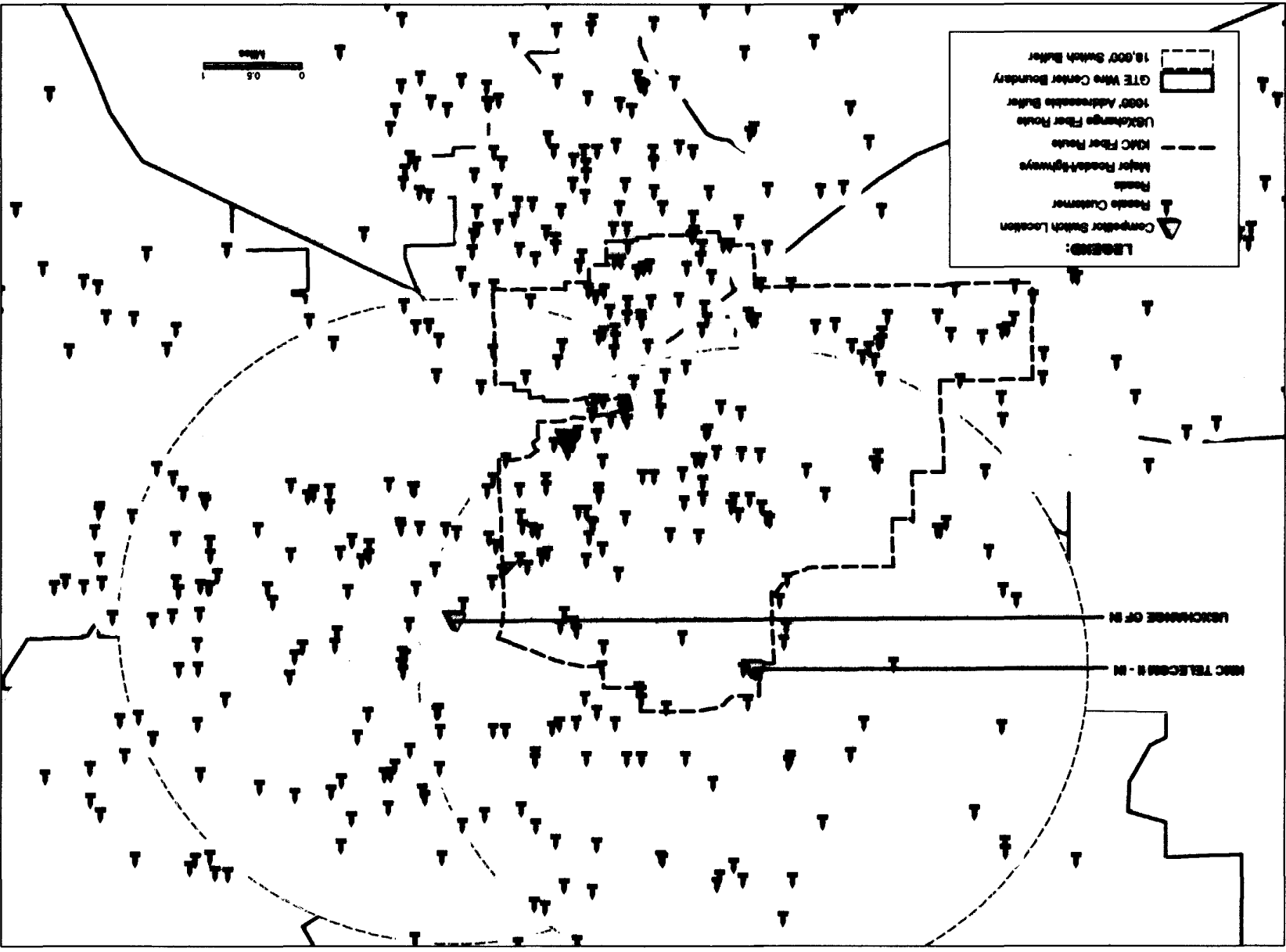The following definitions are employed for the bypass and addressability statistics that follow:
- Customers that are Immediately Addressable region are defined to fall within a buffer area of 1,000 feet on either side of a competitor's fiber route.
- Customers that are Radius Addressable are defined to fall within a radius of 18,000 feet around a competitor's class five switch.
- Buildings may contain more than one bypass customer.

The following tables summarize the addressability statistics for the Ft. Wayne area:

Resale	Loop UNE	Bypass	Bypass Percentage of Wholesale Share
3,250	2	0	0.06%

Approximately 55% of both business and residential customers in the area are addressable given existing switch locations of KMC and USXCHANGE, and over 25% are within 1000 feet of competitive fiber.

ADDRESSABLE MARKET

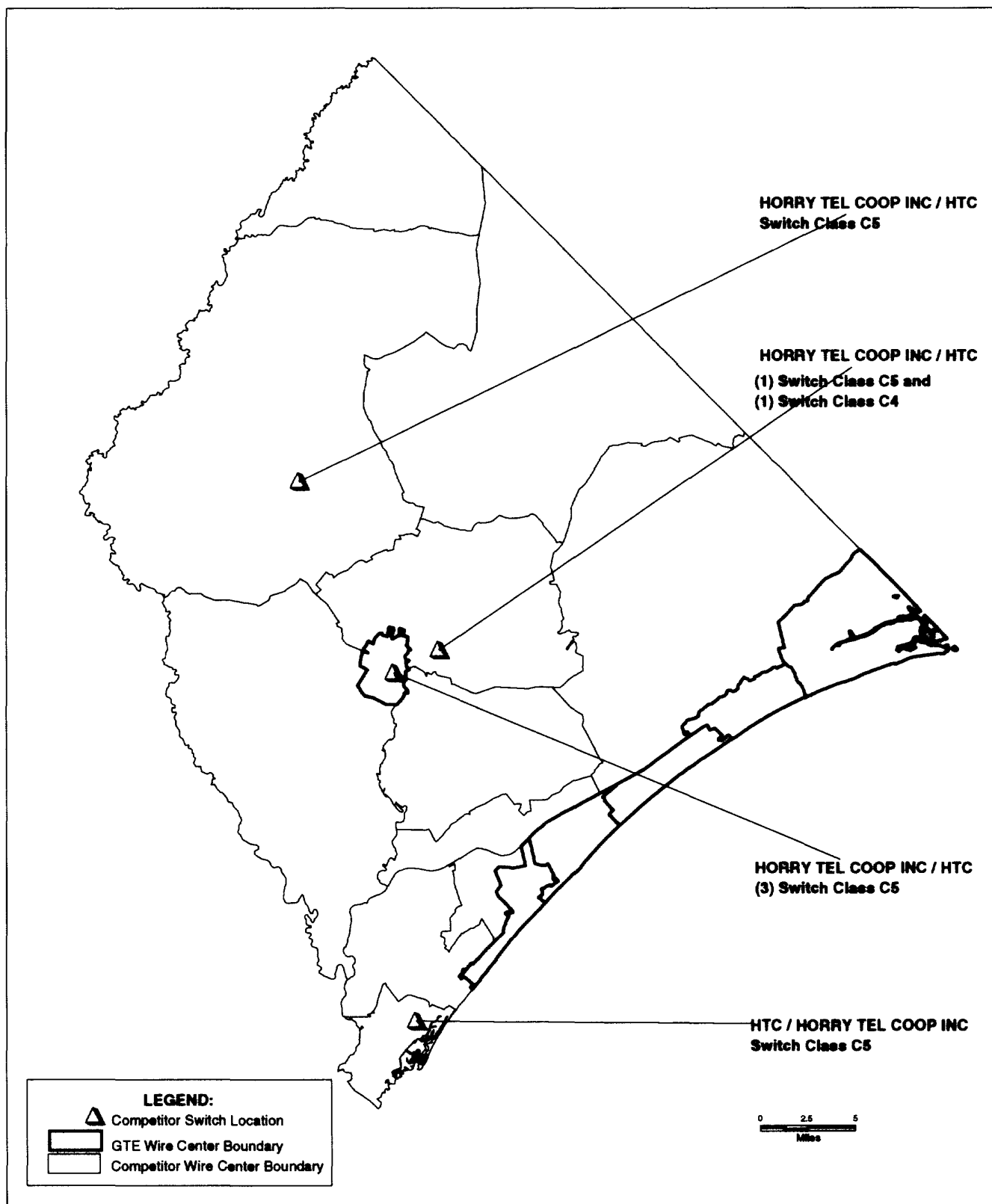|	IMMEDIATE	RADIUS
TOTAL STATISTICS		
Addressable buildings	18,692	39,056
Total buildings	78,614	75,113
Percent of addressable buildings	23.78%	52.00%
Addressable customers	24,979	51,811
Total customers	99,402	94,565
Percent of addressable customers	25.13%	54.79%
BUSINESS STATISTICS		
Addressable business buildings	2,608	4,907
Total business buildings	9,679	9,046
Percent of addressable business buildings	26.94%	54.24%
Addressable firms	4,267	7,508
Total firms	13,858	13,015
Percent of addressable firms	30.79%	57.69%
RESIDENTIAL STATISTICS		
Addressable residential buildings	16,535	35,008
Total residential buildings	70,510	67,598
Percent of addressable residential buildings	23.45%	51.79%
Addressable residences	20,712	44,303
Total residences	85,544	81,550
Percent of addressable residences	24.21%	54.33%

GTE Franchise Area - Conway, Myrtle Beach, and Georgetown, South Carolina: Competitive Switch Deployment

Overview of Map 6.1

Map 6.1 demonstrates switch deployment by Horry Telephone Cooperative and HTC Communications, the CLEC arm of Horry Telephone. With the exception of one switch collocated with GTE in Myrtle Beach, basic local service is believed to be provided using switches in Horry's ILEC territory, completely bypassing GTE. The deployment strategy leverages the assets of the cooperative and evidences that Horry has excess switching capacity. HTC's operations south in Georgetown, South Carolina, are expected to become operational in July 1999.

6.1 GTE Franchise Area - Conway, Myrtle Beach, and Georgetown, South Carolina: Competitive Switch Deployment

HORRY TEL COOP INC / HTC
Switch Class C5

HORRY TEL COOP INC / HTC
(1) Switch Class C5 and
(1) Switch Class C4

HORRY TEL COOP INC / HTC
(3) Switch Class C5

HTC / HORRY TEL COOP INC
Switch Class C5

LEGEND:
△ Competitor Switch Location
▢ GTE Wire Center Boundary
▢ Competitor Wire Center Boundary

0   2.5   5
Miles

GTE Franchise Area - Conway, Myrtle Beach, and Georgetown, South Carolina: Competitive Fiber Deployment

Overview of Map 6.2

Map 6.2 shows HTC Communications' fiber routes that connect Conway (to the west), Myrtle Beach (to the east), and Georgetown (to the south). Although the detail is not shown here, Horry also has deployed extensive FTTC (fiber-to-the-curb) that permits HTC to acquire GTE customers without obtaining any loop or other facilities from GTE.